

APA 2025 Udaipur | Oral Presentations

ABS ID	ABS.Title	Author Full Name	Institution/Affiliation	City/Country
5	Fabrication of a Dry Biopolymer-Based Contact Drawn Fiber Sheet for Rapid Blood Clotting	Pratibha Singh	All India Institute of Medical Sciences (AIIMS)	New Delhi
19	Environmentally Benign Polymers as Effective Corrosion Mitigators	Ambrish Singh	Nagaland University	Lumami
20	Molecular Insights into Polymer Membranes and Non-Stoichiometric Electrolytes	Anurag Prakash Sunda	J. C. Bose University of Science and Technology, YMCA	Faridabad
21	Service Life Estimation of Weathered 3D-Printed Stereolithography Photocured Resin Parts	Raghu Raja Pandiyan Kuppusamy	National Institute of Technology	Warangal
24	Synthesis of binary films Chitosan/Starch using glutaric acid and its Characterization	Virpal Singh	M.J.P Rohilkhand university bareilly	Debai
37	Development of fire-resistant Safe sSBR Based Green Compounds utilizing LPCA and HPCA	Nitin Kumar	Mohanlal Sukhadia University	Udaipur
61	Condensation Polymerisation of Nylon 66 for flame retardant application	Sundaramoorthy Palanisamy	Northern India Textile Research Association	Ghaziabad
64	Synthesis of ZnMn ²⁺ /O ₂ Nanofleets via Surface Modification Using Citric Acid and Polyvinyl Alcohol: Enhanced Photocatalytic, Photoelectrochemical, and Antimicrobial Performance under Visible Light Irradiation	Karthiga Rajendaran	Madurai Kamaraj University	Theni
66	Electrochemical Post-Ugi Cyclization Enabled by In-cell Generated Hypervalent Iodine(III) Intermediates for the Synthesis of Imidazolidin-4-one and Oxazolidin-4-one	Dinesh Suwalka	Mohanlal Sukhadia University	Udaipur
67	Electrochemical Decarboxylative Ketone Synthesis from NHPI Esters and Vinyl Azides	Bhawana Jat	Mohanlal Sukhadia University	Udaipur
68	Development and Characterization of a Green Superabsorbent Polymer Based on Diatomaceous Earth	Arpit Sand	Manav Rachna University	Faridabad
72	Keratin nanofibers scaffold as a potential candidate for tissue engineering application	Keshaw Ram Aadil	Govt. Digvijay Autonomous PG College Rajnandgaon	Chhattisgarh
75	Graphitic Carbon Nitride Based Materials and Their Applications in Organic Synthesis	Shikha Agarwal	Mohanlal Sukhadia University	Udaipur

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82	Agarose hydrogel-based sensing platform for rapid detection of food toxicants	Anjali Awasthi	HBTU	Kanpur
83	Melt Electrowriting of PCL-BaTiO ₆ Scaffolds: Advancing Print Fidelity, Mechanical Performance, and Biofunctionality	Dhrmendra Sablaniya	IISc	Bangalore
85	Sustainable Packaging via Electrospun Films Functionalized with Nitrogen-Doped Carbon Dots	Ankit Tyagi	Indian Institute of Technology	Jammu
90	Broad molecular weight HDPE by a two-step slurry polymerization process	Sanket Shah	Reliance Industries Limited	Surat
102	Study of curing kinetics of hydrazide -substitute phthalonitrile (HYZ-PN) resin through model-based and model-Free kinetic methods	Jeetendra Kumar Banshiwal	DMSRDE	Kanpur
103	Nadimide-substituted phthalonitrile resin (NPRs) and their structure-property evaluation for high temperature applications	Ajit Shankar Singh	DMSRDE	Kanpur
107	Kaempferia galanga herbal supplementation alleviates hyperglycemia-induced dyslipidemia, oxidative stress, and apoptosis in BALB/c diabetic mice	Flavius Phranagsngi Nonglang	North Eastern Hill University	Shillong
122	Radiation and Plasma Assisted Development of Efficient Catalytic Systems for water pollutant remediation	Swarnima Rawat	Bhabha Atomic Research Centre	Mumbai
128	Synthesis, Characterization and Evaluation of Biological Activities of Azines based Schiff Bases and their Sn(II) Complexes	Kiran Meena	Mohanlal Sukhadia University	Udaipur
131	Understanding chemical composition of hydrogel additives on Portland cement chemistry	Sabrina Afzal Shaikh	Kishinchand Chellaram College, HSNC University	Mumbai
156	6-Årylvinyl-1,2,4-trioxanes as potential antimalarial leads	Dinesh Kumar Yadav	Mohanlal Sukhadia University	Udaipur
159	Preparation and Properties of Carbon Fiber-Reinforced Epoxy-Aluminum alloy laminates	M Balasubramanian	Indian Institute of Technology Madras	Chennai
165	Green synthesis of metallic nanoparticles using plant extract	Laxmi Narain Jatolia	S. D. Govt. College, Beawar Raj.	Beawar (Raj.)

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216	Cellulose acetate, a source from discarded cigarette butts for the development of mixed matrix loose nanofiltration membranes for selective separation	Moucham Borpatra Gohain	CSIR-North East Institute of Science and Technology, Jorhat	Jorhat
219	Flame retardant PP bio composites filled with ATH and reinforced with surface modified sisal fiber (SF): Investigation of the mechanical, thermal, morphological and flammability properties of thermoplastic polymer PP/ATH bio-composites	Malaya Ranjan Parida	CIPET:SARP-LARPM	Bhubaneswar
227	Development of High-Performance Thermally Conductive Epoxy Adhesives Using Conducting Polymers and CNTs	Prakash Chandra	Bundelkhand University	Jhansi
250	Development and Characterization of Jackfruit Seed Starch-Based Nanocomposite Films for Sustainable Active Packaging Applications	Rashmi B J	M. S Ramaiah University of Applied Sciences	Bengaluru
251	Efficient Energy Harvesting Using Processed Poly(vinylidene fluoride) Nanogenerator	Anupama Gaur	Indian Institute of Technology	Patna
260	Next Generation 2-Dimensional Materials and Nano-Bio Composites for Biosensing, Food Safety and other Health-Care Applications	Kanchan Yadav	Department of Materials Engg. Indian Institute of Science	Bengaluru
265	Biomaterials Integrated with Phage Therapy and Phytochemicals for Wound Healing Applications	Ruchi Mishra Tiwari	Symbiosis International (Deemed University)	Pune
295	Halloysite nanoclay incorporated gelatin electrospun fibre for bio-separations: synthesis, characterization and biological studies	Ashwini Wali	MS Ramaiah Institute of Technology	Bangalore
298	Formulation and Evaluation of electrospun Antimicrobial Scaffolds for biomedical applications	Aditya Ramchandra Nemade	MS Ramaiah University of Applied Sciences	Bengaluru
306	Self-powered Supramolecular Micropumps for On-chip Sensing	Debabrata Patra	Institute of Nano Science and Technology	Mohali
312	Optimizing Sustainable Nanomaterials: The Transformative Role of AI and ML in Green Nanotechnology	Avinash Marwal	Mohanlal Sukhadia University	Udaipur
331	Dielectric relaxation and electrical conductivity of Magnetic Iron Oxide nanoparticle reinforced silicone elastomer nanocomposites.	Abhishek Sharma	Dr. C.V. Raman University, Bilaspur (C.G.)	Bilaspur

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333	Biogenic Synthesis of Nano Fertilizers and Their Foliar Studies on Legume Crops Production	Saurabh Singh	M.L.V. Government College	Bhilwara
334	Anti-inflammatory and analgesic activity of ethanolic extract and different fractions of Eulophia nuda Lindl.	Neetu Kumari	Mohanlal Sukhadia University	Udaipur
337	Multiwell hydrogel for in vitro 3D cancer model fidelity	Rajesh Vasita	Central University of Gujarat	Vadodara
340	Synthesis of Isoxazole-isoxazoline Derivatives of Eugenol as Potential Inhibitors of VEGFR2	Poonam Khandelwal	Mohanlal Sukhadia University	Udaipur
341	Fe ₃ O ₄ -Decorated Sulfonated Graphene Oxide Nanocomposites: A Dual-Action System for Dye Degradation and Microbial Inhibition	Himanshu Sharma	Mohanlal Sukhadia University	Udaipur
343	Eco-Friendly Synthesis of Al ₂ O ₃ /CeO ₂ -Biochar Nanocomposites for Efficient Water Purification: Targeting Pb ²⁺ and Pharmaceutical Pollutant	Arush Sharma	Baddi University of Emerging Sciences and Technology (BUEST)	Solan
344	Green synthesized AgNPs embellished on crumpled surface of thiazole modified g-C ₃ N ₄ : A heterocatalyst for the photodegradation of pharmaceutical effluent Itraconazole	Ajay Kumar	School of Basic and Applied Sciences, Maharaja Agrasen University	Himachal Pradesh
358	Xerophytic to Bioplastic: Development and Characterization of Bioplastic from Opuntia ficus pulp	Bhagyashri S. Watve	Walchand College of Engineering	Sangli
366	Enhancing the surface integrity of additively manufactured Nickel-based alloy using novel polymer based viscoelastic abrasive finishing process	Shanmuka Srinivas M	Indian Institute of Technology	Tirupati
378	Transforming Lignin into Polymer Film with Improved Physicochemical Properties via Itaconic Acid Modification and Polycaprolactone Grafting	Ajit Singh	CSIR-NEIST	Jorhat
381	Concentration Dependant Porosity of Torlon Membranes Obtained by Phase Inversion Method for Gas Separation Applications.	Kingshuk Kundu	DEBEL-DRDO	Bangalore
396	Engineering Smart Actuating Microgels for Stimuli-Triggered Drug Delivery	Divya Dheer	Chitkara University	Panchkula
399	Preparation and Characterization of Bacterial Cellulose based Shape Memory Aerogels for Rapid Hemostasis	Ankita Sharma	Indian Institute of Technology Delhi	New Delhi

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401	Strength and Load-Bearing Studies of Diamond Reinforced Zinc Composite Coatings for Heat Sink Applications: Approaches from Experiments and Genetic Algorithm-Particle Swarm Optimization	Ashish Goyal	Manipal University	Jaipur
407	Catalytic Synthesis of Quinoxalines Using THS and their In Silico Biological Activity Against Î±-Amylase and Î±-Glucosidase	Lokesh Kumar Agarwal	Mohanlal Sukhadia University	Udaipur
408	Comparative Analysis of Biochar Derived from Coconut Shell and Rice Husk for Soil Amendment and Carbon Sequestration	Ashish Sharma	S.N.K.P.Govt.College Neem Ka Thana	Jaipur
422	Designing Bioinspired Multicomponent Supramolecular Peptide-Biopolymer Based Composite Scaffold To Recapitulate Differential Cellular Microenvironment	Shambhavi Kashyap	INST Mohali	Mohali
437	Development of CMC-Starch-Based Biodegradable Films for Sustainable Packaging Applications	Manali Somani	Indian Institute of Packaging	Delhi
444	Study of Polyaniline Embedded Transition Metal Substituted Strontium Titanate for Energy Applications	Tithi Sen	Defence Materials and Stores Research and Development Establishment (DMSRDE), DRDO	Kanpur
445	Self-healing Behaviour of Sodium Ionomer/Styrene-Isoprene-Styrene Blend Materials by Ballistic Test	Shilpi Tiwari	DMSRDE	Kanpur
455	V Amylose: An Intestine Targeted Delivery System for Controlled Release of Flufenamic Acid	Rabab Fatima	UPES	Dehradun
458	Effective Research Publication in Wiley Polymer Portfolio and the Usage of Artificial Intelligence	Anurag Mukherjee	Wiley APAC	India
469	Technical Development of boron doped carbon dots/ reduced graphene oxide solution gated field effect transistor for the detection of tumor marker	Arun Kant Singh	CSIR-National Physical Laboratory	New Delhi
471	RSC: Integrating Chemical Sciences Community and Beyond	Aayushi Arora	Royal Society of Chemistry	